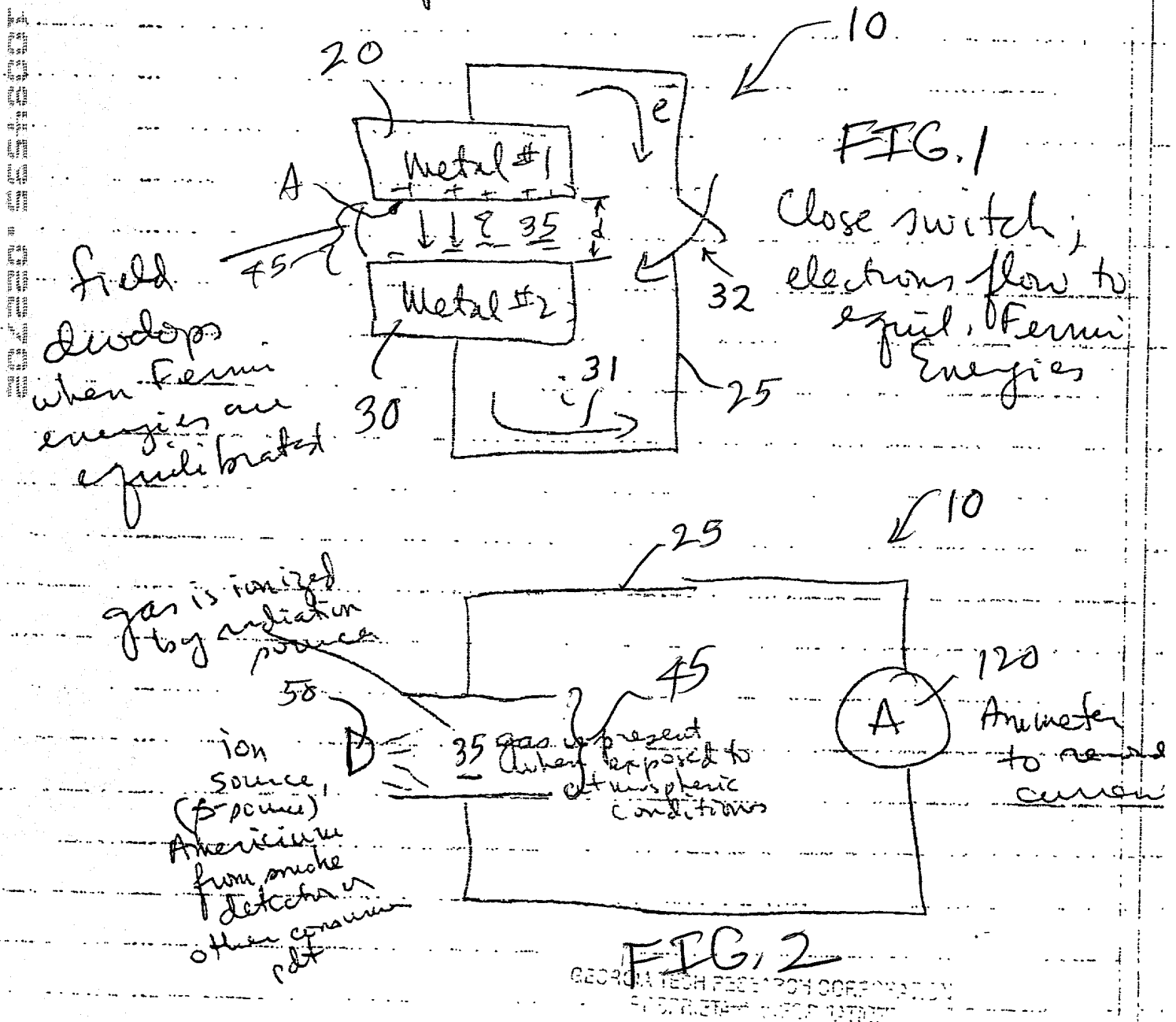


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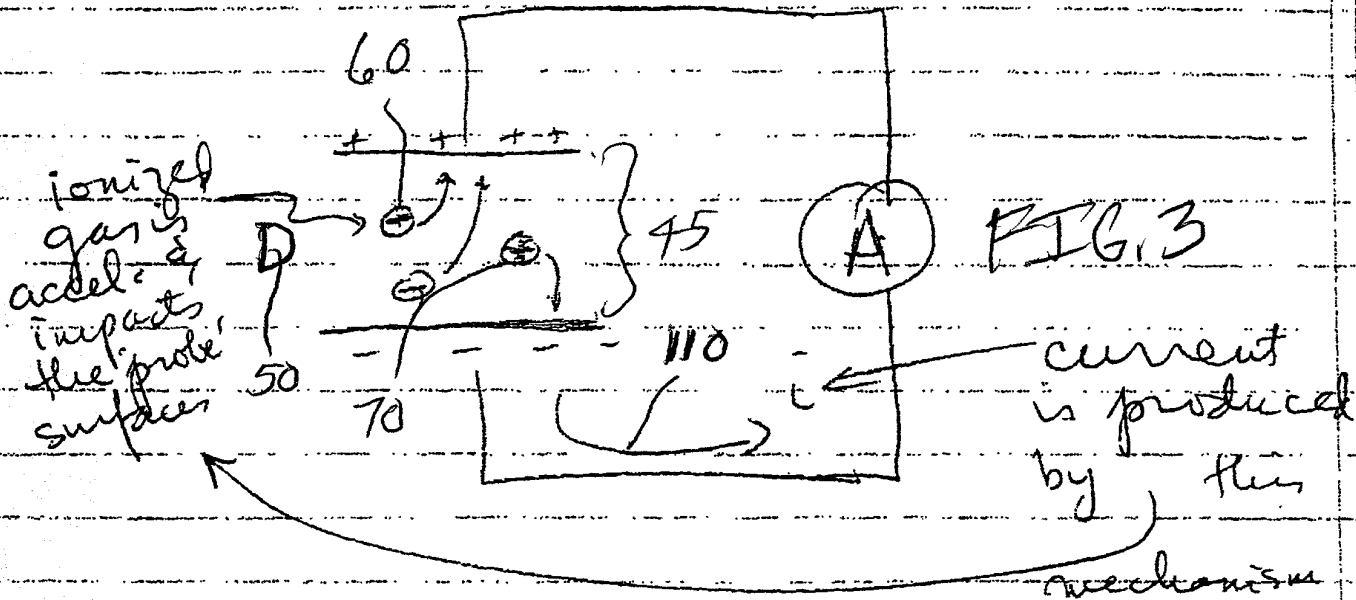
(1)

"Contact Potential Ionization Battery"

Concept:



(2.)



ionization rate

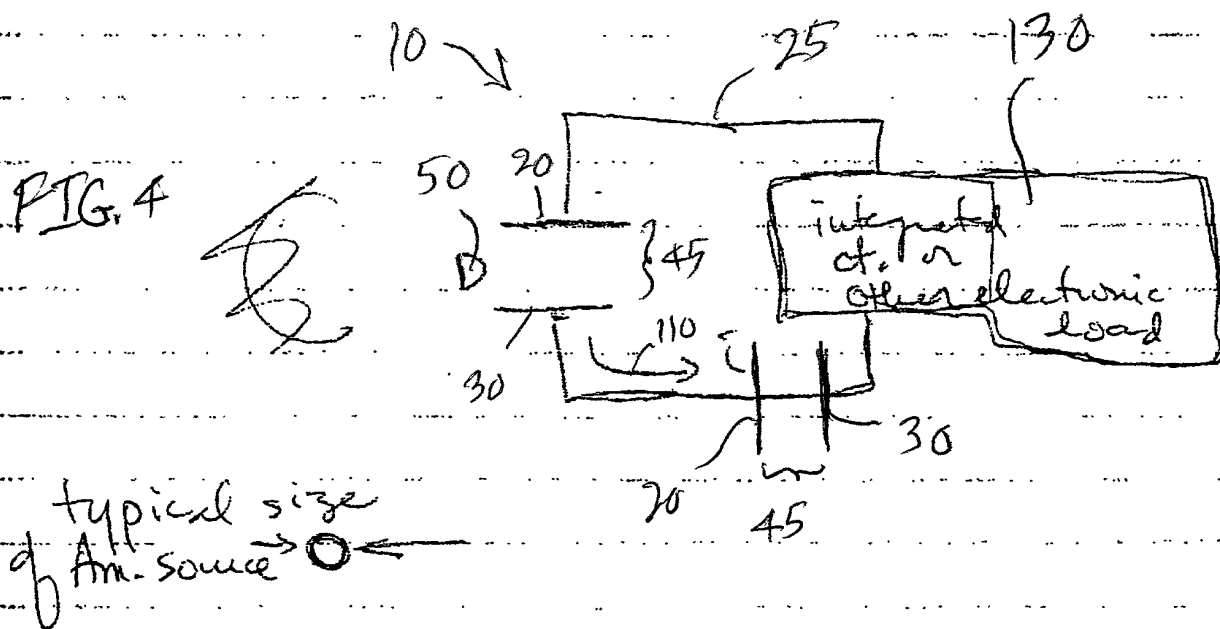
$$i \propto (\eta)(\Delta\phi)(\text{size of the probe})$$

Work function difference

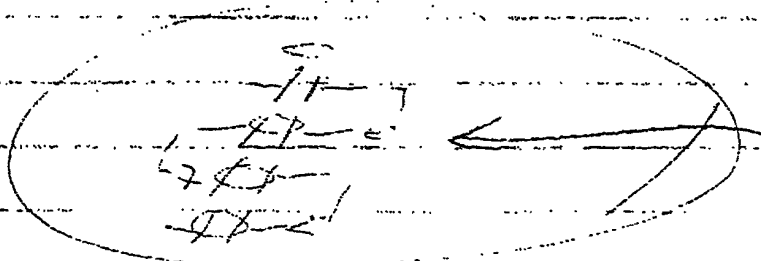
(1.) detail: η increases with pressure, temperature, type of gas, work function value (magnitude)

(2.) current is perpetual as long as gas is present and radiation source is present

Therefore this current is avail. to drive other elect. devices



4. Can 'integrate' battery into silicon wafer



can stack
in series
to increase
the current.